

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1. (Currently Amended) A communication apparatus comprising:

a radio section that receives a radio signal to convert into a baseband signal;

a ~~first~~ baseband signal processor that executes ~~baseband signal~~ processing that is common among a plurality of radio communication systems and processing that is different among the plurality of radio communication systems on the baseband signal; and

~~a second baseband signal processor that executes baseband signal processing that is different among the plurality of radio communication systems; and~~

a reconfiguring section that reconfigures only a portion in the baseband signal processor that executes the processing that is different among the plurality of radio communication systems, the ~~second baseband signal processor~~ based on programming data of a new radio communication system upon switching of radio communication systems.

2. (Currently Amended) The communication apparatus according to claim 1, wherein the portion in the baseband signal processor that executes the processing that is different among the plurality of radio communication systems ~~second baseband signal processor~~ comprises:

a synchronization section that establishes synchronization of communications, and

a compensator that corrects amplitude or a phase of the baseband signal.

3. (Currently Amended) The communication apparatus according to claim 2, wherein:
the portion in the second baseband signal processor that executes the processing that is different among the plurality of radio communication systems comprises an FFT section that executes orthogonal transform on the baseband signal, and
the reconfiguring section reconfigures a processing portion of the FFT section, the processing portion varying with the number of items of data subjected to the orthogonal transform.

4. (Original) The communication apparatus according to claim 3, wherein the synchronization section determines synchronization timing using a baseband signal obtained by demodulating a signal mapped on a subcarrier by the orthogonal transform in the FFT section.

5. (Currently Amended) The communication apparatus according to claim 2, wherein:
the portion in the second baseband signal processor that executes the processing that is different among the plurality of radio communication systems comprises a correlation section that executes correlation processing of the baseband signal, and
the reconfiguring section reconfigures a combination of operations in the correlation section.

6. (Original) The communication apparatus according to claim 5, wherein the synchronization section determines synchronization timing using a result of the correlation processing of the baseband signal in the correlation section.

7. (Currently Amended) The communication apparatus according to claim 1, wherein:

the portion in the ~~second~~ baseband signal processor that executes the processing that is different among the plurality of radio communication systems comprises an error controller which performs error correction of the baseband signal or a retransmission request when the baseband signal has an error, and

the reconfiguring section reconfigures a processing portion of the error controller, the processing portion different among a plurality of error correction systems or error detection systems.

8. (Original) The communication apparatus according to claim 7, further comprising:
a storage section that stores a result of processing of the error controller, wherein
the reconfiguring section reconfigures connection with an output destination of content stored in the storage section.

9. (Currently Amended) The communication apparatus according to claim 1, wherein the reconfiguring section acquires information required for reconfiguration from the radio signal received in the radio section to reconfigure the portion in the ~~second~~ baseband signal processor that executes the processing that is different among the plurality of radio communication systems.

10. (Currently Amended) The communication apparatus according to claim 1, further comprising:

an interface section that reads out data stored in the storage section, wherein

the reconfiguring section acquires information required for reconfiguration from the storage section via the interface section to reconfigure the portion in the ~~second~~ baseband signal processor that executes the processing that is different among the plurality of radio communication systems.

11. (Currently Amended) The communication apparatus according to claim 1 8, further comprising:

an interface section that receives information required for reconfiguration, in wired connection, wherein

the reconfiguring section acquires the information required for reconfiguration from the storage section via the interface section to reconfigure the portion in the ~~second~~ baseband signal processor that executes the processing that is different among the plurality of radio communication systems.

12. (Currently Amended) The communication apparatus according to claim 1 8, further comprising:

an interface section that receives information required for reconfiguration, in specific power-saving radio communications, wherein

the reconfiguring section acquires the information required for reconfiguration from the storage section via the interface section to reconfigure the portion in the ~~second~~ baseband signal processor that executes the processing that is different among the plurality of radio communication systems.

13. (Currently Amended) The communication apparatus according to claim 1, further comprising:

a radio-section communication section that relays communications between the radio section and the ~~first and second~~ baseband signal processor ~~processors~~; and

a CPU communication section that relays communications between the ~~first and second~~ baseband signal processor ~~processors~~ and the reconfiguring section, wherein the ~~second~~ baseband signal processor is detachable.

14. (Currently Amended) The communication apparatus according to claim 13, further comprising:

an attaching/detaching detector that detects attaching/ detaching of the ~~second~~ baseband signal processor; and

a first power source supplier which supplies power to the radio section, and when detaching of the ~~second~~ baseband signal processor is detected, halts supply of the power to the radio section.

15. (Currently Amended) The communication apparatus according to claim 13, further comprising:

a radio communication section that performs radio communications;

an application section that performs display, replay and edition of data of image, music and mail; and

a connector that relays communications between the radio communication section and the application section, wherein:

the radio communication section and the application section are separable,
the radio communication section comprises:
a radio-section communication section that relays communications between the radio section
and the ~~first and second~~ baseband signal processor ~~processors~~,
a CPU communication section that relays communications between the detachable ~~second~~
baseband signal processor and the reconfiguring section,
a first CPU, and
an application communication section that relays communications with the application
section, and
the application section comprises:
a call control communication section that relays communications with the radio
communication section,
a separation detector that detects separation of the radio communication section, and
a second CPU that halts communications to the radio communication section when separation
of the radio communication section is detected.

16. (Currently Amended) The communication apparatus according to claim 13, further
comprising:

a radio communication section that performs radio communications;
an application section that performs display, replay and edition of data of image, music and
mail; and

a connector that relays communications between the radio communication section and the application section, wherein:

the radio communication section and the application section are separable,

the radio communication section comprises:

a radio-section communication section that relays communications between the radio section and the ~~first and second~~ baseband signal processor ~~processors~~,

a CPU communication section that relays communications between the detachable ~~second~~ baseband signal processor ~~detachable~~ and the reconfiguring section,

a first CPU,

an attaching/detaching detector that detects attaching/detaching of the second baseband signal processor,

a first power source supplier which supplies power to the radio section, and when detaching of the ~~second~~ baseband signal processor is detected, halts supply of the power to the radio section, and

an application communication section that relays communications with the application section, and

the application section comprises:

a call control communication section that relays communications with the radio communication section,

a separation detector that detects separation of the radio communication section,

a second power source supplier which supplies power to the radio communication section, and when separation of the radio communication section is detected, halts supply of the power to the radio section, and

a second CPU that halts communications to the radio communication section when separation of the radio communication section is detected.

17. (Currently Amended) A reconfiguration method of a communication apparatus comprising:

a radio section that receives a radio signal to convert into a baseband signal;

a ~~first~~ baseband signal processor that executes ~~baseband signal~~ processing that is common among a plurality of radio communication systems and processing that is different among the plurality of radio communication systems on the baseband signal; and

~~a second baseband signal processor that executes baseband signal processing that is different among the plurality of radio communication systems,~~

the reconfiguration method comprising:

downloading programming data of a second radio communication system in order to perform handover for switching to the second radio communication system during communication in a first radio communication system; and

reconfiguring ~~only~~ a portion in the baseband signal processor of the communication apparatus that executes ~~baseband signal~~ processing different among the plurality of radio communication systems, based on the programming data.